

NAL PROPOSAL No. 114

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INTERACTION OF 200-500 GeV PROTON WITH EMULSION NUCLEI

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ABSTRACT

We are interested in exposing Ilford G-5 pellicles to proton beam from the lowest to the highest energy value available. The exposures shall be along the plane of the pellicles with a flux density of  $10^4$  to  $10^5$  particles/cm<sup>2</sup>. We shall study the primary interactions, the multiplicity and the cross-section as a function of primary energy which will vary from 200-500 GeV.

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